

**Department of Public Works and Transportation
Montgomery County, Maryland**

DIVISION OF SOLID WASTE SERVICES



SORRT staff member, Rachel Eckert, distributing recycling bins and information for a model recycling program at Lakeforest Mall.

***MONTHLY REPORT
AUGUST 2001***



Printed on Recycled and Recyclable Paper

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, fiscal year to date (FY Total), and current calendar month in the two prior fiscal years. (County fiscal year 2001 began July 1, 2000.)

FACILITY	Aug FY 02	FY 02 Total	Aug FY 01	Aug FY 00
Materials Recovery Facility ⁽¹⁾	6,448 tons	12,632 tons	6,487 tons	4,699 tons
Brunswick Landfill Facility ⁽⁴⁾	21,433 tons	42,278 tons	14,152 tons	12,309 tons
American Ash Recycling ⁽²⁾	N/A	N/A	3,001 tons	3,342 tons
Resource Recovery Facility ⁽³⁾	57,724 tons	111,756 tons	42,997 tons	39,345 tons
Yard Trim Compost Facility	3,386 tons	7,130 tons	4,291 tons	1645 tons

⁽¹⁾MRF tons reported are outgoing.

⁽²⁾Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here. For FY01 these tonnages are preliminary, with adjustments made in the December and June monthly reports.

⁽⁴⁾This category only addresses waste sent to the landfill for disposal. It does not include rubble that is recycled at Clean Rock or other locations.

Revenue Analysis and Systems Evaluation — During August, program staff:

- Handled routine level of billing question;
- Prepared for the coming budget season by learning new reporting tools and requirements and coordinating internal procedures;
- Continued work on Variable Rate Study and held a Task Force Meeting; and
- Finished preparing field inspection notebooks for all condominium properties;
- Updated premise address notebooks;
- Updated and reported service household counts;
- Continued research and corrections to billing database;
- Revised Stratford subdivision (new service) bills;
- Continued development of new hauler billing system including: reviewed of internal controls at transfer station, tested web-server operations and dollar accuracy of test invoices, and showed new system to a large private hauler gaining very favorable review;
- Began field audits of 6-month reports from licensed haulers and continued related database additions.
- Began receiving and processing FY02 non-residential billing appeals.

CITIZEN COMMITTEES

Facilities Implementation Group – The next scheduled FIG meeting is November 13 at the Gothic Barn.

Sugarloaf Citizens Association – The County worked with SCA & FIG to quantify the remaining obligations under the Master Plan and the SCA Agreement. SCA and the County will meet on September 25, 2001, at 7:30p.m. at the Gothic Barn.

Solid Waste Advisory Committee – SWAC met Tuesday, August 7, at the Executive Office Building, 6th Floor Conference Room. Thirteen SWAC members, five County staff and one guest were in attendance. DSWS staff gave presentations to the Committee on Out-of-County Haul, Developed Landfills (Gude, Oaks) and Satellite Drop Off Sites.

COLLECTIONS

Refuse – Refuse collections went as scheduled for the month of August. There were 126 homes in the Stonegate Community added to the refuse program, making for a total of 1,103 new customers.

Recycling – Mixed paper tonnages for the residential program during the last two four week periods are as follows:

7/9/01 through 8/3/01	8.62 lbs. per household
8/6/01 through 8/31/01	9.10 lbs. per household

Contractor Performance – During the month of August, DSWS received 609 complaints; this represents a 26.45% decrease from August 2000, which had 828 complaints. Only two complaints were not promptly resolved by the contractors in August; all were corrected by the County.

Enforcement Actions – Eleven citations were issued for violations of the County's Solid Waste Laws:

Three citations	Collecting solid waste before 7 a.m.	\$2,000
Three citations	Not having a suitable tight fitting cover	\$1,500
Two citations	Not having a valid collectors license	\$1,000
Two citations	Not having a valid collectors tag attached	\$1,000

Thirty citations were issued to Windolph/Williams Farm Corp. for the following violations:

Fifteen citations	Vehicles found to be in a state of disrepair or dysfunction.	\$7,500
Fifteen citations	Dump, deposit or leave solid waste at other than an acceptance facility.	\$7,500

Two hundred twenty-four (224) citations issued to Vernon Martens for the following violations:

One hundred twelve citations	Vehicles found to be in a state of disrepair or dysfunction.	\$56,000
One hundred twelve citations	Dump, deposit or leave solid waste at other than an acceptance facility.	\$56,000

Seven NOV's (formal warnings) were issued for violation's of the County's Solid Waste Laws:

Two NOV's	Failing to maintain an approved container
Two NOV's	Improperly stored solid waste
One NOV	Dumping or leaving solid waste on public or private property
One NOV	Vehicle found to be unsafe
One NOV	Not having a tight fitting cover

Customer Service – DSWs received 9,425 incoming calls and 605 follow up calls were made for quality check. There were 1,411 blue bins delivered and 252 e-mail requests handled by the Customer Service Staff.

WASTE MINIMIZATION

Latex Paint Management – The County continues to promote home-management of latex paint.

Bicycle Recycling – Pedals for Progress picked up 78 bicycles in early August. These bikes will be repaired and find new homes in El Salvador and West Africa.

Computer Recycling – Approximately 34 tons of computers were recycled in August under the computer recycling program.

Department of Environmental Protection's Home Composting and Source Reduction Activities – The Gazette's "Green Man" column continues monthly, and also appears in digest form at greenman.askDEP.com. In addition, each column is being developed into fact sheets, both in print and PDF format.

Don't touch that dial... Eco Minutes from the Green Man now air weekdays on WARW-FM (a CBS affiliate), with a new Eco Minute presented every week. The environmental spots, which will feature grasscycling and composting through the fall months, air approximately 5-6 times a day, generally between 6:30 and 8:00 a.m., and between 5:00 and 7:30 p.m., taking full advantage of important drive-time hours. The spots also encourage listeners to visit classicrock947.com where they will find a link to the Eco Minutes page, which features the current Eco Minute and links to the DEP Grasscycling (or Composting) web pages and the Green Man page. There is no cost to

Montgomery County for producing or airing these "infomercials" nor for web page support.

Teachers have begun to sign up for VermiLab training during the fall semester.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection – HHW events were held in August at the Transfer Station and Silver Spring. There were 866 patrons and 375 patrons at the two events, respectively.

Small Quantity Generator (Ecowise) Program- One Ecowise event was held in August; twelve companies attended.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility (RRF): CEM Tracking of RRF Operations -

Continuous Emissions Monitoring System (CEMS) indicated that all three (3) units were operating continuously until 7 p.m. on August 1, when unit 1 was brought off-line. The unit was taken off-line primarily to reduce the amount of ash generated because a limited number of ash containers were available for transporting ash to the landfill in Virginia. However, problems with the ash discharger delayed bringing the unit on-line on August 6. During the down-time, some maintenance work was also done. Units 2 and 3 were operating until August 6 when unit #1 was brought online at 7 p.m. Thereafter, all three units were operating continuously throughout August. No equipment malfunctions in August.

During the first week of August, the set of nine CEM CD-ROM's was updated to include CEMS data up to July 30, 2001. Copies of the CD-ROM's were placed in the Rockville and Poolesville libraries and distributed to DSWS staff, SWAC and FIG.

The County received a draft of the RRF Title V Air Permit from MDE. NEA, COVANTA and DSWS are currently reviewing this document.

In August, staff efforts to put the CEMS data on the County's web site were successful. While the system is accessible on the internet, a few problems still remain to be solved. Currently, County staff and COVANTA are coordinating their efforts to solve these problems. Staff hopes to accomplish this task in September.

Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology -

Leachate Thermal Treatment System (LTTTS) operated for only 9 days, evaporating on average-8 gallons of leachate per minute. Bentech continues negotiations with electric companies for implementing an electricity-generating project. A meeting is scheduled with Bentech for September 10 to discuss contractual issues.

Bentech sent a copy of the agreement the firm signed with a broker for marketing Green House Gas (GHG) credits for the Oaks. A copy of this Agreement was furnished to Jared Littmann for review. Further discussions on this issue will be carried out with Bentech at the September 10 meeting.

Yard Trim Composting Facility: Consent Agreement – Although exceedances of BOD₅ Discharge Permit limit occurred in Ponds 1 and 2, DSWS is not planning any monitoring program until after the ponds are cleaned and subsequent performance is evaluated.

FIG-SWAC Air Quality Subcomttee – Minutes of the July 12 Committee meeting were prepared and mailed to Committee members. Committee members approved the minutes.

In August, a new laboratory was subcontracted by ENSR for conducting analytical services for the Non-Air Media Monitoring Program. DSWS reviewed the credentials of this lab and approved ENSR's selection.

In August, the dairy farmer in the dry-deposition area was contacted for scheduling a date for milk sampling in connection with the Non-Air Media Monitoring Program. The farmer informed that he sold all his 100 cows a few weeks ago and is no longer in the dairy business. The next closest dairy farm to the deposition area is the Johnson Farm near the intersection of Mouth of Monocacy and Mount Ephraim Roads. The Committee was informed of the situation and recommended that milk sampling be performed at this farm for comparison with samples to be collected at the same farm after three years. Following the Committee's recommendation, agreement was obtained from this farmer for sampling milk in September or October. A farmer in Lucketts (Control Site) was also contacted for sampling hay, and an agreement was obtained to sample in October.

Contractual Work – Efforts are underway to amend the SCS Contract to include emergency services in the event of landfill gas migration at the Gude landfill and Beantown dump.

An amendment has been prepared and submitted to the Office of Procurement for extending ENSR contract for one more year to allow ENSR to complete the draft reports on the RRF Multimedia Studies. A draft report on the Epidemiological Study is expected in October 2001.

RECYCLING

Public Outreach – Outreach events in the low missed paper participation areas were completed in August. Staff takes the Recycle Mobile out to locations with much activity such as shopping centers. A display of all the types of paper and cardboard that can be recycled at the curb is set up and information on mixed paper recycling is handed out. In addition, orders for new or additional blue bins are taken, and all other questions

and requests are fulfilled. Work has begun to develop, translate and print information on recycling, waste reduction and buying recycled products in English, Spanish and Chinese to further increase awareness in households where English is not the primary language.

Commercial Recycling and Waste Reduction – Staff continued to perform on-site evaluations of recycling programs for businesses. Staff is making plans to work with local shopping malls to increase recycling awareness to mall tenants and customers. The next edition of the SORRT Newsletter honoring recipients of the Montgomery County 2001 Recycling Awards is being prepared should be mailed by late September. Staff conducted spot checks of incoming loads of trash for recyclable materials at the Transfer Station. Information was gathered to educate the haulers and generators of the materials. Work continues on the business recycling video that will feature recycling, waste reduction, reuse and buying recycled. Work has begun on updating the SORRT Business Recycling Regulation Handbook.

Multi-Family Recycling- Staff continued to perform on-site evaluations of recycling programs, and work with property managers and residents to provide assistance and support. Staff continued to assist properties that were not in compliance with the County's regulation. Delinquent properties are being visited in order to obtain their annual recycling reports for 2000. Staff began implementing programs using the recently completed survey results. The next issue of the TRRAC newsletter is expected to be mailed in September.

Mixed Paper Recycling- Staff continues monitoring the amounts of mixed paper being recycled in each area, to troubleshoot and provide additional education to those low performance areas. Recruiting employees for the canvass initiative is underway. An educational item in the form of a large paper bag printed with the do's and don'ts of mixed paper recycling has been finalized and readied for printing. This item will be distributed to all single-family households in October through the Washington Post.

Volunteer Activities – For the month of August, 67 volunteers contributed 356 hours of time to the following recycling activities:

- Household Hazardous Waste collections at Silver Spring and the Transfer Station;
- The Montgomery County Agricultural Fair August 10-18;
- Several neighborhood outreach events

PILOT PROGRAMS

Mixed Paper Pilot – We are on schedule for distribution of the wheeled toters in the Potomac Area during the week of September 10, 2001.

Tubgrinding Pilot – Tubgrinding of screened reject material began in August.

Ash Recycling Pilot – The ash-recycling pilot program ended in June. The Authority issued an RFP for a long-term ash-recycling program and a pre-proposal meeting was held on July 25. Proposals are due September 12.

FACILITY ACTIVITIES

Resource Recovery Facility – The Facility operation consisted of three units for the entire month except for the first six days of the month when unit 1 was off-line due to problems with the ash discharger and lack of ash containers. Last month's problems with the supply of ash containers were corrected by the end of August. However, CSX made a change in their dispatch schedule, requiring the trash train to leave the Transfer Station later. The effect of this change is being monitored.

There were two utility generation alerts during the month: one minimum and one maximum. The summer maximum generation test was successfully completed. The facility exported 53.5 mWh during the test.

There were two forecasted Code Red days. In both cases, the facility followed approved procedures and reduced unit load to 70%.

There were no reportable air or water quality environmental excursions during the month.

The following environmental events occurred:

- Submitted the August Water Supply Report to MDE.
- Responded to MDE report of the potable water system inspection made in June. All issues have been addressed.
- Continued investigation into the elevated TSS in July. Boiler blowdown appears to be the cause of elevated TSS, and will be re-directed to the settling basin for use in the ash quench.
- Continued to review the draft Title V permit from MDE.
- Submitted reports to MDE for oil spills on August 10 and 16.
- Updated the County CD-ROM's emission data.
- Representatives of MDE toured the facility.

A representative of the Liberty International Underwriters visited the facility and reviewed the fire protection components. Twenty County employees visited, representing the Office of Management and Budget and DSWS.

SCS Engineers/Dvirka and Bartilucci continue interviewing personnel and reviewing data in performing the Operations Review and Assessment of the Facility.

Mirant representatives confirmed the additional electricity revenue for the last six months of FY01 will total \$1,413,750.95. This revenue is in addition to the amount already received during the six-month period and should be paid by October.

Materials Recovery Facility – Approximately 1,592 tons of commingled material were shipped out after processing, and approximately 4,856 tons of mixed paper were loaded out and transferred to the Office Paper Systems processing facility.

The contractor continued with the construction of the building expansion. The contractor completed curbing and paving work, the fire suppression system, started electrical work, installed the roll-up door and completed the building siding. The building expansion should be substantially complete in September. The contractor must install a louver, some translucent panels, finish installation of the interior lights and address a few other items to reach substantial completion.

The existing building was re-caulked.

Visitors from the Ukraine and Japan toured the plant.

Oaks Landfill – Cherry Hill Construction, the contractor for the Phase I closure construction, submitted final documentation for the project. Documentation is being reviewed for completeness by the County's quality assurance engineer.

DEP and the Office of the County Attorney continue to prepare additions to the Post-Closure Care Plan for the 30-Year post-closure period at the Oaks Landfill in response to comments received from the Maryland Department of the Environment on the draft plan submitted by DSWS.

DEP continued weekly monitoring of certain gas wells where methane had been detected. Methane is present in one of the wells.

DSWS is working with SCS Engineers to evaluate potential modifications to the leachate storage lagoons to facilitate clean-out of sludge from the lagoons and provide greater operational flexibility. Options include subdividing the lagoons and providing additional valving, piping and pump systems.

Gude Landfill – URS is designing repairs to correct several poorly drained areas at the landfill.

Beantown Dump – DSWS's contractor completed the final design of the passive gas venting system at the old Beantown dump site. Staff sent agreements for the installation of landfill gas extraction wells to property owners. Staff also sent agreements for the installation of methane gas detectors to property owners with businesses in the footprint or within 1,000 feet of the former dump site. Field staff verified the number of businesses eligible for the methane detectors.

Transfer Station- During August, Covanta shipped via rail 51,347 tons of processible waste from the Transfer Station, 1,684 fewer tons than shipped in August 2000.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

Covanta received replacement roof fans for the Transfer Station building roof to be installed in the near future.

Plumbing work for the MES personnel trailer was completed.

The County recommended award of a task order to design a roof for the Household Hazardous Waste compound.

Security cameras were installed at the scale house, and two of the five cameras for the Transfer Station building were installed.

Covanta installed bladder door seals on a number of containers.

Site 2 Landfill Properties – Repair and repointing of stone at the Chiswell farmhouse was initiated. A new well pump was installed and water was piped to the cellar. A more thorough assessment of the structural condition continues to be developed. Repair and installation of a new roof is being scoped and priced.

Draft documents for the long-term leasing of the Chiswell farm were developed.

The Draper property lease continues to be drafted by DFS.

Solid Waste Facilities Master Plan – Staff worked with FIG and SCA to quantify the remaining obligations in the Plan and other documents.

Yard Trim Compost Facility – The Dickerson Yard Trim Facility received 3,386 tons of grass from composting; 3,478 yards of Leafgro were sold in bulk.

Bagging Operation – In August, 28,600 bags of Leafgro were produced at the facility and 12,750 bags were shipped to distributors.

Linden Farm Renovations - Under the signed bagging agreement, the County is to renovate the Feed Barn and Bank Barn. Dean Fitzgerald, the contractor, started the renovation work in June; renovation work is ongoing.

Out-of-County Haul

Brunswick County, Virginia - During the month of August, about 17,315 tons of ash residue and 4,119 tons of nonprocessible waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. Landfill in Brunswick County, Virginia. This was another new record with respect to the total quantity of material managed in a single month. About 1,640 tons of rubble were recycled at Clean Rock. The RRF was running all three units for most of the month, resulting in high volumes of ash residue to transport. Maintenance on the ash container fleet, including replacement of corroded side panels, continues at the Collier Rail Yard near Petersburg, Virginia. Most of the containers in the 300-container fleet have been

inspected and repaired. Two prototype, corrosion-resistant containers, one made out of stainless steel and one made out of fiberglass, are being tested. The fiberglass container was damaged during tipping, and the manufacturer is reassessing its design.

Allied started a state-approved recirculation of leachate at all areas of their landfill earlier in the summer. In August, the County became aware that some leachate from the main waste area of the landfill had been recirculated in the dedicated cell and vice versa. When this was discovered, the County directed Allied to stop this process and train landfill personnel to only recirculate leachate from the dedicated cell back into the dedicated cell. Similarly, Allied was instructed not to recirculate leachate from the dedicated cell into other areas of the landfill. Allied quickly complied with this request once the problem was identified.

Ash Recycling – The County via the Northeast Maryland Waste Disposal Authority issued a solicitation for a long-term ash recycling contract. Proposals are due in September.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste	240-777-6400
Customer Service	240-777-6410
Transfer Station	301-840-2370
Materials Recovery Facility	301-417-1447 (MES)
Resource Recovery Facility	240-777-6439 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	www.MCRecycles.org

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

<i>TOPIC OR FACILITY</i>	
Current Recycling Rate in Montgomery County	36.5%
Recycling Goal	45% by December 2002 50% by December 2004
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 TPD on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations limited to receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY01 tons received- 59,643
# Residences receiving trash collection by County contractors	84,540
# Residences receiving collection of recyclables in blue bins and yard waste collection	199,258
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

AAR	American Ash Recycling, Inc.
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CDL	Commercial Driver's License
CEMS	Continuous Emissions Monitoring System
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Transportation Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Financing Administration
HHW	Household Hazardous Waste
IFB	Invitation For Bid
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
Mg/l	milligrams per liter
M-NCPPC	Maryland National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NEA	Northeast Maryland Waste Disposal Authority
NOV	Notice of Violation
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
OLAC	Oaks Landfill Advisory Commission
OMB	Office of Management and Budget
OPS	Office Paper Systems
PEPCO	Potomac Electric Power Company
PSA	Public Service Announcement
RFP	Request for Proposal
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SHA	State Highway Administration
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
T.R.R.A.C.	Think Reduce and Recycle at Apartments and Condominiums
UT	Ultra-sonic Testing
WM	Waste Management
YTCF	Yard Trim Composting Facility